

# Contents of ZON & TIJD 2024.4 (nr. 151, December)

Editors

*Hint for the digital version: a mouse click on an entry brings you to the page where the article starts.*

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| <p>3 <b>Editorial: From old to new</b> - <i>Editors</i><br/>January, start of the New Year.</p> <p>4 <b>From the NL Board</b> - <i>Secretariat</i><br/>Three new Board members were elected: Janny Wijchman, Hendrik Hollander and Hans Wilschut. Hendrik will be secretary.</p> <p>5 <b>From the Sundial Society of Flanders</b> - <i>Eric Daled</i><br/>A majority of the membership has agreed with the proposal to dissolve the Society of Flanders in 2025.</p> <p>6 <b>The new sundial registry</b> - <i>Gerard van den Braak</i><br/>Gerard explains the structure of the new database, how to report new or moved dials, and which outputs can be obtained.</p> <p>8 <b>May I introduce myself</b> - <i>Janny Wijchman</i><br/>Janny explains what attracts her to sundials.</p> <p>9 <b>Le Mont Solaire</b> - <i>Hans Schipper</i><br/>The island of Mont Saint-Michel (France) served as a gnomon for a huge sundial around the autumn equinox of 1988. A 'land art' project.</p> <p>11 <b>The Binnenhof as a gold mine</b> - <i>Editors</i><br/>During excavations of the Binnenhof (seat of the Dutch parliament), the lower part of a dyptich sundial was found, made of horn by Kaspar Milner from Nürnberg.</p> <p>12 <b>The polyhedral sundial of Alberda. Part 1: The individual dials considered</b> - <i>Frans Maes</i><br/>This baroque instrument, dating from early 18th century, features nine sundials. The hour lines are correctly delineated, except for the antique hours; the date lines appear less precise.</p> <p>19 <b>A prophet with a sundial</b> - <i>Editors</i><br/>Janny Wijchman saw a statue holding a sundial on the pulpit of the convent church in St. Paul im Lavanttal (Austria). It depicts the prophet Isaiah and refers to the retrogradation of the shadow on Ahaz' sundial.</p> <p>20 <b>Sundial made from bicycle rims</b> - <i>Hans Wilschut</i><br/>Hans made an armillary sundial from two bicycle rims and studied how accurate it could be, by adjusting the alignment in three directions, based on a mathematical model of the dial. With better mounting and correct adjustment, an accuracy of 18 seconds (s.d.) was obtained.</p> <p>24 <b>A solar chronometer</b> - <i>Wim Geerts</i><br/>Wim was challenged to build a chronometer by using the sun, for a range of 20 min and an accuracy of 10 sec. He amplified the sun's movement with a 12x binoculars, projecting a lightspot on paper. At a velocity of 12.95 mm/min, an accuracy of 9 sec was obtained.</p> | <p>25 <b>The metadata of digital photos</b> - <i>Hans Wilschut</i><br/>Photos made with modern cameras and smartphones have a lot of metadata associated. These can be read with a suitable app. The data can be used to check the accuracy of a sundial, by combining the time stamp on photos with the gps info stored.</p> <p>26 <b>Armillary sundial with EoT correction</b> - <i>Frans Maes</i><br/>A runner on the hour band has an EoT curve. Adjusting it so that the shadow of the pole-style hits the curve on the proper date enables direct reading of civil time.</p> <p>27 <b>Noon analemma on Möbius strip</b> - <i>Frans Maes</i><br/>A student group designed a stainless steel Möbius strip, entitled 'Infinite Possibility'. It has been placed in front of the Engineering Research Center of Brown University (Providence, USA). Sunlight falls through a small hole, casting a bead of light on the lower surface. At 12 noon (11 AM in winter) it touches the analemma.</p> <p>29 <b>Report of the meeting of 21 September in Tricht</b> - <i>Secretariat</i><br/>In the morning, the workshop on spherical trigonometry was continued. The afternoon started with an extra AGM, in which three board members were elected, completing the board after lengthy vacancies.<br/>Rob van Gent addressed the perpetual calendar on the polyhedral Alberda sundial. Its importance at the time derived from the adoption of the Gregorian calendar by protestant regions around 1700.<br/>Hendrik Hollander assisted in an art project of Katja Mater, turning numbers found in the Buda industrial area (Brussels) into single-hour sundials. Several members contributed interesting matters to the 'open table' section.</p> <p>31 <b>The previous sundial on the Nieuwe Kerk in Amsterdam</b> - <i>Editors</i><br/>An etching by Frederik de Wit showed the sundial that adorned the south aisle of the church between 1648 and 1722.</p> <p>32 <b>Puzzle: sunrise and word puzzle</b> - <i>Frans Maes/Willy Leenders</i><br/>The angle <math>\alpha</math> of the sun's path at sunrise as a function of latitude <math>\varphi</math> and solar declination <math>\delta</math> is:<br/><math>\cos \alpha = \sin \varphi / \cos \delta</math>.<br/>The traditional word puzzle for the holidays is from Willy Leenders.</p> <p>34 <b>Contents of this issue</b> – <i>Editors</i></p> <p>35 <b>Information on the Netherlands' Sundial Society and the Sundial Society of Flanders</b></p> |
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